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APPLICATION NO. FILING DATE FIRE	ST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/164,504 09/30/1998 M	ICHAEL S. KAPPES	20944.4000	6738	
500 · 7590 04/24/2003				
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE SUITE 6300 SEATTLE, WA 98104-7092		EXAMINER		
		NGUYEN, TOAN D		
		ART UNIT	PAPER NUMBER	_
		AKT ONT	TATER NOMBER	_
•		2665	ω	
		DATE MAILED: 04/24/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

i		Application No.	Applicant(s)		
		09/164,504	KAPPES, MICHAEL S.		
	Office Action Summary	Examiner	Art Unit		
		Toan D Nguyen	2665		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status 1)⊠	Perposive to communication(s) filed on 22	Santambar 2002			
2a)□	Responsive to communication(s) filed on $\underline{23.5}$ This action is FINAL . 2b) \boxtimes Th	is action is non-final.	•		
<i>'</i> =	,				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims					
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-19</u> is/are rejected.					
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction and/o	r election requirement.			
Application Papers					
9) The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12)☐ The oath or declaration is objected to by the Examiner.					
	nder 35 U.S.C. §§ 119 and 120				
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice 2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Agazzi et al. (U.S. Patent 4,669,116).

For claims 1, 6-7, 11-13, 16-17 and 19, Agazzi et al. disclose non-linear echo cancellation of data signals, comprising the steps of:

generating an analog output signal by said first transmitter for receipt by said second receiver (figure 2b, col. 3 lines 64-66);

sampling said analog output signal (col. 3 lines 66-68); and

performing echo cancellation based on said analog output signal, wherein said echo cancellation cancels the echo signals conveyed by said echo channel (col. 3 lines 62-64).

However, Agazzi et al. do not explicitly disclose a first transmitter and a second receiver. To include the first transmitter and the second receiver would have been obvious to one of ordinary skill in the art since Agazzi et al. disclose each modem circuit 10, 10' of figure 1 includes a transmitter 14 and receiver 22 (col. 3 lines 1-3).

For claims 2 and 8, Agazzi et al. disclose performing cancellation substantially reduces the effects, on signals received by said first receiver, of non-linearities present in said first transmitter (col. 18 lines 54-57).

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For claim 3, Agazzi et al. disclose the steps of:

converting said analog output signal into a corresponding digital signal, said digital signal corresponding to the echo signals as well as the non-linearities present in said first transmitter (col. 4 lines 2-5); and

substracting the digital signal from signals received by said first device to produce a compensated digital signal (col. 3 line 68 to col. 4 line 2).

For claims 4-5, 9-10, 14-15 and 18, Agazzi et al. disclose the step of performing echo cancellation further comprises the step of training an echo canceller to account for at least a part of the echo signals imparted by said echo signals received by said first device (section 3.2 or col. 11 line 13 to col. 12 line 59).

Response to Arguments

3. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D Nguyen whose telephone number is 703-305-0140. The examiner can normally be reached on Monday- Friday (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 703-308-6602. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-9600.

T.N.

ALPUS H. HSU PRIMARY EXAMINER

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